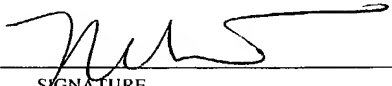


JC07 Rec'd PCT/PTO 25 JAN 2002

Form PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV 10-95)		ATTORNEY'S DOCKET NUMBER 3135-020112
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO (if known, see 37 CFR 1.5) 10/031883
INTERNATIONAL APPLICATION NO PCT/NL00/00539	INTERNATIONAL FILING DATE 28.07.2000 (July 28, 2000)	PRIORITY DATES CLAIMED 28.07.99 (July 28, 1999)
TITLE OF INVENTION METHOD OF IDENTIFYING AND REGISTERING ENTITIES AND AN ASSEMBLY OF HARDWARE AND SOFTWARE FOR APPLYING SUCH A METHOD		
APPLICANT(S) FOR DO/EO/US Benno Henricus Nicolaas HIJL		
<p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information</p> <p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371</p> <p>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1)</p> <p>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="padding-left: 20px;">a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau)</p> <p style="padding-left: 20px;">b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau.</p> <p style="padding-left: 20px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2))</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="padding-left: 20px;">a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau)</p> <p style="padding-left: 20px;">b. <input type="checkbox"/> have been transmitted by the International Bureau.</p> <p style="padding-left: 20px;">c. <input type="checkbox"/> have not been made, however, the time limit for making such amendments has NOT expired</p> <p style="padding-left: 20px;">d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))</p> <p>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5))</p> <p>Items 11. to 16. below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment together with retyped specification pages 1-3a</p> <p style="padding-left: 20px;"><input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment</p> <p>14. <input type="checkbox"/> A substitute specification</p> <p>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information</p> <p style="padding-left: 20px;">a. WO 01/08375-Front Page with Abstract, Specification, Claims, Drawings and Search Report (19 pp.)</p> <p style="padding-left: 20px;">b. International Preliminary Examination Report with Annex (16 pp.)</p>		

100051253 1042202

JC13 Rec'd PCT/PTO 25 JAN 2002

U.S. APPLICATION NO. 10/031883		INTERNATIONAL APPLICATION NO. PCT/NL00/00539		ATTORNEY'S DOCKET NUMBER 3135-020112	
17 <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)): Search Report has been prepared by the EPO or JPO..... \$860.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) \$690.00 No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2))..... \$710.00 Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$1,000.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) \$100.00 <div style="text-align: right;">ENTER APPROPRIATE BASIC FEE AMOUNT =</div>				CALCULATIONS PTO USE ONLY	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e))				\$ 130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	7 - 20	0	X \$18.00	\$ 0.00	
Independent claims	2 - 3 =	0	X \$78.00	\$ 0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$260.00	\$ 0.00	
TOTAL OF ABOVE CALCULATIONS =				\$ 990.00	
Reduction of 1/2 for filing by small entity, if applicable Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28)				\$ 0.00	
SUBTOTAL =				\$ 990.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$ 0.00	
TOTAL NATIONAL FEE =				\$ 990.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)) The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property				\$ 0.00	
TOTAL FEES ENCLOSED =				\$ 990.00	
				Amount to be: refunded	\$
				charged	\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>990.00</u> to cover the above fees is enclosed b. <input type="checkbox"/> Please charge my Deposit Account No _____ in the amount of \$ _____ to cover the above fees A duplicate copy of this sheet is enclosed c. <input checked="" type="checkbox"/> The Assistant Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No <u>23-0650</u> A duplicate copy of this sheet is enclosed NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. SEND ALL CORRESPONDENCE TO: John W. McIlvaine 700 Koppers Building 436 Seventh Avenue Pittsburgh, Pennsylvania 15219-1818 Telephone: (412) 471-8815 Facsimile: (412) 471-4094					
				 SIGNATURE John W. McIlvaine NAME 34,219 REGISTRATION NUMBER	

PATENT APPLICATION/PCT
Attorney Docket 3135-020112

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	:	
Benno Henricus Nicolaas HIJL	:	METHOD OF IDENTIFYING
	:	AND REGISTERING ENTITIES
International Application	:	AND AN ASSEMBLY OF
No. PCT/NL00/00539	:	HARDWARE AND SOFTWARE
	:	FOR APPLYING SUCH A
METHOD	:	
International Filing Date	:	
28 July 2000	:	
Priority Date Claimed	:	
28 July 1999	:	
Serial No. Not Yet Assigned	:	
Filed Concurrently Herewith	:	
		Pittsburgh, Pennsylvania
		January 25, 2002

PRELIMINARY AMENDMENT

BOX PCT
Commissioner for Patents
Washington DC 20231

Sir:

Prior to initial examination, please amend the above-identified patent application
as follows:

IN THE SPECIFICATION:

Please insert section headings.

On amended page 1, after the title, please insert the following section
headings:

BACKGROUND OF THE INVENTION

1. Field of the Invention

9. The method as claimed in claim 8, wherein the method also comprises the processing steps of:

- d) registering data of persons,
- e) creating a data carrier on the basis of the registered data, and
- f) linking the data carrier to a specific URL/domain name.

10. The method as claimed in claim 9, wherein the method further comprises the processing step of:

- g) making specific URLs/domain names accessible to the public.

11. The method as claimed in claim 9, wherein the method further comprises the processing step of:

- h) providing services by means of a data carrier.

12. The method as claimed in claim 9, wherein the method further comprises the processing steps of:

- i) incorporating registered data of persons in data files,
- j) incorporating the data files in a search system, and
- k) providing an interface with search options for generating results on request

as a response to a query.

13. The method as claimed in claim 8, wherein the method is applied within specific Top Level Domains and/or Sub Level Domains.

14. An assembly of hardware and software for identifying and registering persons based on existing identification codes, in particular for internet applications, by:

a) defining a URL/domain name system in accordance with a system of the identification codes stored in at least one database,

b) formulating URL/domain name notation rules in accordance with the defined system of identification codes, and

c) designating codes and the associated URLs/domain names on the basis of the defined system of identification codes and in accordance with the formulated URL/domain name notation rules, and implementing at least a part of the URLs/domain names in the internet, the assembly comprising:

a network of servers for designating and making available the URLs/domain names,

at least one database coupled to the network of servers and having registered data of persons of URLs/domain names, and

hardware and software for inputting, localizing and presenting the registered data.

IN THE ABSTRACT:

After the claims, please insert a page containing the Abstract Of The Disclosure, which is attached hereto as a separately typed page.

REMARKS

The amended specification has been further amended by this Preliminary Amendment to place the application in conformance with standard United States Patent practice.

Original claims 1-7 and the amended claims 1-7 have been canceled and rewritten as claims 8-14 in order to eliminate the multiple dependencies and to conform the claims to standard United States patent practice.

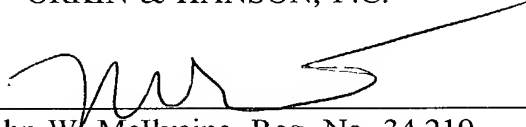
An Abstract Of The Disclosure has been added as a separately typed page to be inserted after the claims.

Examination and allowance of claims 8-14 are respectfully requested.

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON
ORKIN & HANSON, P.C.

By



John W. McIlvaine, Reg. No. 34,219
Attorney for Applicant
700 Koppers Building
436 Seventh Avenue
Pittsburgh, PA 15219-1818
Telephone: 412/471-8815
Facsimile: 412/471-4094

The invention relates to a method of identifying and registering entities, in particular for internet applications, comprising the processing steps of: a) defining a URL/domain name system in accordance with a system of identification codes, b) formulating URL/domain name notation rules in accordance with the defined system of identification codes, and c) designating codes and the associated URLs/domain names on the basis of the defined system of identification codes and in accordance with the formulated URL/domain name notation rules. The invention also relates to an assembly of hardware and software for applying this method.

Rec'd PCT/PTO 25 JAN 2002
10/03 1883

Method of identifying and registering persons and an assembly of hardware and software for applying such a method

5 The invention relates to a method of identifying and registering persons, in particular for internet applications, and to an assembly of hardware and software for applying such a method.

10 The internet is a fast-growing medium which, from a communication viewpoint, consists of Top Level Domains (TLDs), internet addresses (Uniform Resource Locators (URLs)), internet sites with information, search engines, users and access providers. Top Level Domains such as "com", "net", "org", "edu", "gov", "mil" etc. are defined on the basis of a worldwide open organization structure. The structure of naming is based on internationally standardized character sets. There are also Sub-Level Domains (SLDs) which are country-specific: "us", "uk", "nl" etc. The general search engines
15 available are focussed particularly on searching sites by content. The worldwide character and the infinite possibilities in respect of the publication of information and message traffic make it essentially a medium with particularly attractive use potential. It is thought that internet at this moment is at its initial stage. Characteristic of the present situation is that heretofore internet has been designed mainly by engineers and that at
20 the moment the providers and users are located for the most part in industrialized countries. It is expected that the number of users and providers will only increase in the future. Through wider application the internet will also undergo further changes so as to make it more of a user medium with unrivalled possibilities and with a broad, worldwide degree of participation.

25 Seen from a worldwide viewpoint, there is at the moment quite a low internet participation and a mediocre spread of providers and users. The main causes for this lack of spread, in addition of course to the relatively short existence of internet, are to be found in aspects such as technical possibilities, cost, the anticipated utilization,
30 retrievability, position in respect of for instance competitors and so on. The internet has an essentially worldwide orientation. Powerful options aimed specially at (inter)local and (inter)regional oriented use (other than on SLDs) are lacking. In the present situation on the internet, searching for a URL/domain name is practically only possible via the internet. Within the internet unclear or confusing naming is possible for

-2-

URLs/domain names, for instance due to more or less unobstructed use of names of general importance and/or significance. It is generally difficult to be directly retrievable as provider on internet on the basis of URL/domain name. Particularly in the case of frequently occurring names it is in fact impossible to register for each applicant a suitable, distinctive and retrievable URL/domain name. The first registration of a URL/domain name by a user/provider can thus result in a great advantage. An additional drawback of a first registration is that third parties often register URLs/domain names on a large scale having as content the name of for instance a well-known personality or company, whereby the obvious URL/domain name in question is taken, and alleged improper use of a name is thereby made in respect of the alleged entitled person. With the current practice surrounding naming of URLs/domains there is a language and character problem. That is, the problem that in written form each language or group of languages employs its own set of letters and characters. Search engines therefore have the limitation in respect of the following: as search result for a search term in a particular language all that is generally obtained is the information found which is available in the same language. National languages hereby acquire a significant influence in all information queries, this while language could be an insignificant aspect of countless queries or need not represent a barrier. The use of URLs/domain names is often difficult because the URLs/domain names are often too long and complicated. The URL notation moreover contains little functional logic. Search engines often have a worldwide orientation in terms of technical possibilities but, due to the manner of searching by information content in a site and the language barrier which thereby becomes manifest, they are often language-dependent in use and not very regionally oriented. In many of the present search engines on the internet there is an inadequately defined relation between query and result. The present search engines for general purposes search by content in a site on the basis of search terms entered by the user. Searching usually proceeds with difficulty and the search results are in many cases mediocre or poor. Through the manner of searching (for details concerning content), the present information provision and the growth of internet (applications) which can be expected in the future, results of queries based on search terms which are not very specific will to an increasing extent produce unusable results. The use of search engines is generally not intuitive. Specific reduction of the search field in a usual,

-3-

intuitive manner (this may be essential for determined queries) prior to a detailed query is scarcely possible with the existing search engines suitable for general use. At the moment TLDs are defined on the basis of a worldwide, open organizational structure with few restrictions in URLs/domain names and they therefore provide few specific options for use.

The publication by S. Zatti: "Naming in OSI: "Distinguished Names or Object Identifiers?", Proceedings of the Annual European Computer Conference (Compeuro), US, Los Alamitos, IEEE, Computer Society Press, part-conference 5, 1991, pages 258-262" describes two identification schemes, i.e. Distinguished Names (DN) and Object Identifiers (OI), which are used on a large scale in an OSI environment. The DN scheme is sufficiently flexible and powerful to provide the worldwide need for names. The OI scheme has the possibility of incorporating special criteria imposed by individual requirements. The problem of these schemes is that in the present form they cannot be integrated into each other, thus creating a need to design a system which, within the possibilities of OSI and worldwide networks, provides a uniform naming scheme to identify all types of objects. The publication proposes a uniform solution, wherein both schemes can exist side by side in one environment, solely through a minimal modification in said schemes.

The present invention has for its object to provide an improved device for registering, addressing, structuring and finding persons and data, particularly for internet applications, while retaining the advantages of the prior art but without the limitations of the prior art. Persons should in this context be understood as natural persons, legal persons, organisations or objects. The invention is intended to improve the capabilities of searching and finding these persons on the internet and for instance to list the results of a conducted search.

The present invention provides for this purpose a method of identifying and registering persons based on existing identification codes, in particular for internet applications, comprising the processing steps of: a) defining a URL/domain name system in accordance with a system of the identification codes stored in at least one database, b)

-4-

formulating URL/domain name notation rules in accordance with the defined system of identification codes, and c) designating codes and the associated URLs/domain names on the basis of the defined system of identification codes and in accordance with the formulated URL/domain name notation rules, and implementing at least a part of the
5 URLs/domain names in the internet.

The method preferably also comprises the processing steps of: d) registering data of persons, e) creating a data carrier on the basis of the registered data, and f) linking the data carrier to a specific URL/domain name. By replacing names and/or words in a URL/domain name by an identification code associated with a user/provider and
10 registering this in accordance with notation rules suitable for the code there results a better retrievability through a logical and/or known relation between provider or that which is provided and the registered URL/domain name. In addition, this provides the option of finding URLs and information on the internet, at least when the specific URLs/domain names, according to preferred embodiments, are made accessible to the
15 public and/or when services are provided by means of a data carrier, such as for instance the specific URLs/domain names or a page with hyperlinks, by making use of other non-internet-related (search) systems and media which are based on the same system of identifications. When an existing identification code is used, potential registrants can be approached in purposeful manner, wherein use can be made of a possibly already
20 existing search system. Depending on the identification code used, the participation among general or specific groups can hereby be increased. The use of identification codes in a URL/domain name creates a term-free/value-free URL/domain name without any significance in itself. Language problems can be obviated by the use of identification codes and associated structure, even when this involves the permitted
25 characters, which are obviated to a considerable extent in URL naming. The verbal transfer can become easier and more unambiguous due to specific and functionally limiting notation rules. Through the use of identification codes and notation rules the structure of the internet, and therewith the logic, is increased. Making use of the notation rules and the structure ensuing therefrom enables refinement of the search field
30 (at URL level), also without use having to be made of a search engine for this purpose. As the internet grows (users/providers) the functionality can also be increased and transparency can remain ensured. Owing to the combination used according to the

-5-

invention of TLD, identification code, linked data registration and publication and data search and retrieve options, the retrievability, equivalency and so on are increased and participation in the internet can grow considerably. While the Zatti publication describes a uniform system of identification codes (name scheme), the method according to the present invention differs herefrom, among other ways in that no unitary method of identification is described in Zatti but a linking of a plurality of identification systems. This provides no solution, particularly at user level. The Zatti publication merely creates through identification a distinction between objects or names, while the present invention, in addition to creating a distinction, also increases the functionality and the transparency of the internet when compared to the present internet. Nor does the Zatti publication establish any relation with internet applications.

The German publication by T. Weihrich: "Filofax fürs Internet", CT Magazin für Computer Technik, DE, Verlag Heinz Heise GMBH, Hannover, number 10, 1 October 1997 (1997-10-01), pages 346-348, 350-355, XP000701086, ISSN: 0724-8679, describes the necessity of the presence of a 'Domain Name Server' (DNS) to find the Internet Protocol (IP) address associated with a URL/domain name. Since the IP addresses consist of a twelve-digit combination and there is lack of a structure and logic, a DNS is essential. The URLs/domain names are purely for the purpose of improving the user-friendliness of the internet and serve purely as aid. The actual communication proceeds via the IP addresses. The DNS has the task of establishing the link from URL/domain name to associated IP address and vice-versa. Due to the limited nature of the available internet domains and the increasing degree of large-scale buying up of domain names, different internet organisations and internet providers have been discussing an increase in the available TLDs and associated organization. Up until now the American government has obstructed such an increase. This publication argues the case for a logic in the IP addresses, referring to the URLs/domain names, so that a DNS will ultimately become unnecessary, and also argues for an increase in the number of available internet addresses. Even in combination with the above discussed publication by Zatti, the Weihrich publication does not provide the method according to the invention, with which a highly simplified communication on the internet is made possible with an essentially different definition of URLs/domain names. An additional

-6-

difference between the Weihrich publication and the present invention is that the method as stated in the publication has a purely technical objective in which the user is not directly involved, while in the present invention, on the contrary, the method is specifically designed for the user.

5

The method preferably also comprises the processing steps of: i) incorporating registered data of persons in data files, j) incorporating the data files in a search system, and k) providing an interface with search options for generating on request results such as for instance URLs/domain names as a response to a query. The method can herein be applied within Top Level Domains and/or Sub Level Domains designed specifically for this purpose. A search engine which operates by means of the method according to the invention searches on the basis of register data. This data is registered in combination with and linked to a URL/domain. Through registration of relevant (search) terms in the register it is possible to search simply and effectively and there results a clearer relation between query and the result which can be anticipated. Search terms are defined by making use of register data, searching is simplified and the result more transparent and more readily predictable. There also results a defined relationship between query and the result which can be expected. The search field can preferably be directly limited to a group of subscribers via the search engine by entering search terms such as for instance country, area or sector. By making use of a TLD with function-oriented notation rules based on identification codes a strong relation can be created between TLD, URL/domain and the ultimate use function. Although the naming within the TLD thereby becomes restrictive, the functionality will hereby still be improved and options for use will be more effective and more focussed.

25

The invention also provides an assembly of hardware and software for applying said method, comprising a network of servers for designating and making available the URLs/domain names, at least one database coupled to the network of servers and having registered data of persons of URLs/domain names, and hardware and software for inputting, localizing and presenting the registered data. The properties of the servers can be multi-functional, i.e. a server can both make available and designate a URL/domain name. It could also be that each server is assigned its own task, so that for instance the

30

-7-

one server is adapted to make available a URL/domain name and the other server to designate this URL/domain name. Updates can optionally be made at determined times on a secondary server of the operational primary servers, so that if a primary server breaks down, contact can be made with a secondary server, whereby the available
5 URLs/domain names can always be retrieved, even after breakdown of a primary server.

The invention will be elucidated with reference to the non-limitative embodiments shown in the following figures. Herein:

figure 1 shows a schematic view of a system of identification codes based on telephone
10 numbers and the associated (mobile) number network,

figure 2 shows a schematic view of a second system of identification codes showing some resemblance to the system according to figure 1,

figure 3 shows a schematic view of a third system of newly designed identification codes showing some resemblance to the systems according to figures 1 and 2,

15 figure 4 is a schematic view of a fourth system of identification codes showing some resemblance to the systems according to figures 1, 2 and 3,

figure 5 is a schematic view of a method according to the invention for finding a URL,

figure 6 is a schematic view of a network for finding a URL/domain name according to the invention, and

20 figure 7 is a schematic view of the successive processing steps according to the present invention for applying for a new URL/domain name.

Figure 1 shows an example of a system 1 of identification codes based on telephone numbers and an associated (mobile) network. This system 1 of identifications is based
25 on an already existing system of identifications, i.e. the existing system of unique subscriber numbers and area codes for telephone traffic. The system 1 of identification codes comprises internet addresses (URLs/domain names) 2 which are built up of a host 3, a sub-level domain 4 and a top-level domain 5. The URLs/domain names can also have a different detail structure, for instance by using dashes or other characters instead
30 of dots. A national internet address 6 can be formulated per country, in which sub-level domain 4 is linked to the telephone code of the country in question. The top level domain 5 can consist of a register extension 7. This latter is chosen from a limited group

-8-

of available register extensions (uni) such that each country preferably has the same register extension. An area internet address 8 preferably has the register extension 7 of the country associated with the area. The area code of the relevant area is preferably chosen as sub-level domain 4. Just as the area internet address 8, a subscriber address 9 preferably has the register extension 7 of the relevant country. Sub-level domain 4 comprises the (ten-digit Dutch) telephone number of the subscriber. On each country or area site it is possible to search in a register (not shown) of subscriber data using diverse key words. References can also be made to search engines, geographical maps, translation services, service numbers and so on.

10

Figure 2 shows a second example of a system 10 for identifications based on telephone numbers and associated (mobile) number network. A choice has been made to opt for a uniform host 3, a sub-level domain 4 and top-level domain 5, and to place after top-level domain 5 a separator 11, in this example a "/" character, after which is placed the country code, area code or telephone number of the subscriber to be visited.

15

Figure 3 shows a third example of a system 12 of identification codes based on codes and associated network. System 12 of identification codes is based on a new code system still to be further defined. The top-level domain 5 is preferably pre-assigned. The sub-level domain 4 comprises a country code, country code with area code, or country code with area code in combination with subscriber code.

20

Figure 4 shows a fourth example of a system 13 of identification codes based on codes and associated network. As according to figure 3, the system 13 of identifications is based on codes still to be further defined. A choice has been made to opt for a uniform host 3, sub-level domain 4 and top-level domain 5, and to place after top-level domain 5 a separator 11, in this example a "/" character, after which is placed the country code, area code or telephone code of the subscriber to be visited.

25

30

Figure 5 shows a scheme 14 for finding a URL 2. User 15 has the option of finding country sites 6, area sites 8 or sites of subscribers 9 by means of telephone directories, information services and the like. If the URL 2 of for instance a subscriber is known,

-9-

this can then be visited directly. If this URL 2 is not known, it is then possible to search for a desired site at a level higher (country or area) using search engines or other links (hyperlinks).

5 Figure 6 shows a network 16 for finding a URL 2. A symbolizes the browser of a user which is linked to a network 16 of servers 17. Browser A makes a connection with a search page B via one or more servers. A query entered on search page B by a user (not shown) is directed by means of one or more servers to a database 18. Database 18 has the capacity to link the queries entered on search page B to search results with
10 associated URLs 2. The search results is sent over the network 16 of servers 17 and can then be received and published by browser A.

Figure 7 shows a sequence 19 of processing steps for applying for a new URL or subscriber identification 27. Step 20 describes inputting of a new Dutch subscriber 27 or
15 person with the local telephone number 28 of 0413-342829. Linked to the new subscriber in step 21 is a specific identification code 29, which in this example is the complete international telephone number of the subscriber, 0031-0413-342829. In step 22 identification code 29 is linked to a unique URL 30, www.0031-0413-342829.uni. In step 23 the personal data 31 of subscriber 27, such as name, address, sector, speciality
20 etc., are then registered. In step 24 the registered data 31 of subscriber 27 is made accessible to the public via URL 30 in the form of a web page on internet. This web page is referred to as a data carrier 32. A third party can retrieve the registered data 31 (step 25) using a browser (not shown) by making use of a search engine or directly via URL 30. In step 26 the results found on the basis of the queries made in step 25 are
25 presented. The data carrier 32 with registered data 32 are now accessible to the third party. For reasons of privacy, sensitive information or other reasons sites can optionally be screened from the public domain or protected by a password.

-10-

Claims

1. Method of identifying and registering persons (9,27) based on existing identification codes, in particular for internet applications, comprising the processing steps of:
- 5 a) defining a URL/domain name system (2) in accordance with a system of the identification codes (1,10,12,13,29) stored in at least one database,
- b) formulating URL/domain name notation rules in accordance with the defined system of identification codes (1,10,12,13,29), and
- 10 c) designating codes and the associated URLs/domain names (30) on the basis of the defined system of identification codes (1,10,12,13,29) and in accordance with the formulated URL/domain name notation rules, and implementing at least a part of the URLs/domain names (30) in the internet.
- 15 2. Method as claimed in the foregoing claim, characterized in that the method also comprises the processing steps of:
- d) registering data (31) of persons (9,27),
- e) creating a data carrier (32) on the basis of the registered data (31), and
- 20 f) linking the data carrier (32) to a specific URL/domain name (30).
3. Method as claimed in the claim 2, characterized in that the method also comprises the processing step of:
- g) making specific URLs/domain names (30) accessible to the public.
- 25 4. Method as claimed in the claim 2 or 3, characterized in that the method also comprises the processing step of:
- h) providing services by means of a data carrier (32).
5. Method as claimed in any of the claims 2-4, characterized in that the method
- 30 also comprises the processing steps of:
- i) incorporating registered data of persons (9,27) in data files,
- j) incorporating the data files in a search system (18), and

-11-

k) providing an interface with search options for generating results on request as a response to a query.

6. Method as claimed in one or more of the foregoing claims, characterized in that the method is applied within specific Top Level Domains (5) and/or Sub Level Domains (4).

7. Assembly of hardware and software for applying the method of identifying and registering persons (9,27) based on existing identification codes, in particular for internet applications, comprising the processing steps of: a) defining a URL/domain name system (2) in accordance with a system of the identification codes (1,10,12,13,29) stored in at least one database, b) formulating URL/domain name notation rules in accordance with the defined system of identification codes (1,10,12,13,29), and c) designating codes and the associated URLs/domain names (30) on the basis of the defined system of identification codes (1,10,12,13,29) and in accordance with the formulated URL/domain name notation rules, and implementing at least a part of the URLs/domain names (30) in the internet., comprising:

- a network (16) of servers (17) for designating and making available the URLs/domain names (30),
- at least one database coupled to the network of servers and having registered data (31) of persons (9,27) of URLs/domain names (30), and
- hardware and software for inputting, localizing and presenting the registered data (31).

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 February 2001 (01.02.2001)

PCT

(10) International Publication Number
WO 01/08375 A1

(51) International Patent Classification⁷: **H04L 29/06,**
29/12

(74) Agent: **VANDEN HEUVEL, Henricus, Theodorus;** Oc-
trooibureau LIOC, P.O. Box 1514, NL-5200 BN 's-Herto-
genbosch (NL).

(21) International Application Number: **PCT/NL00/00539**

(22) International Filing Date: **28 July 2000 (28.07.2000)**

(25) Filing Language: **Dutch**

(26) Publication Language: **English**

(30) Priority Data:
1012721 **28 July 1999 (28.07.1999) NL**

(71) Applicant and

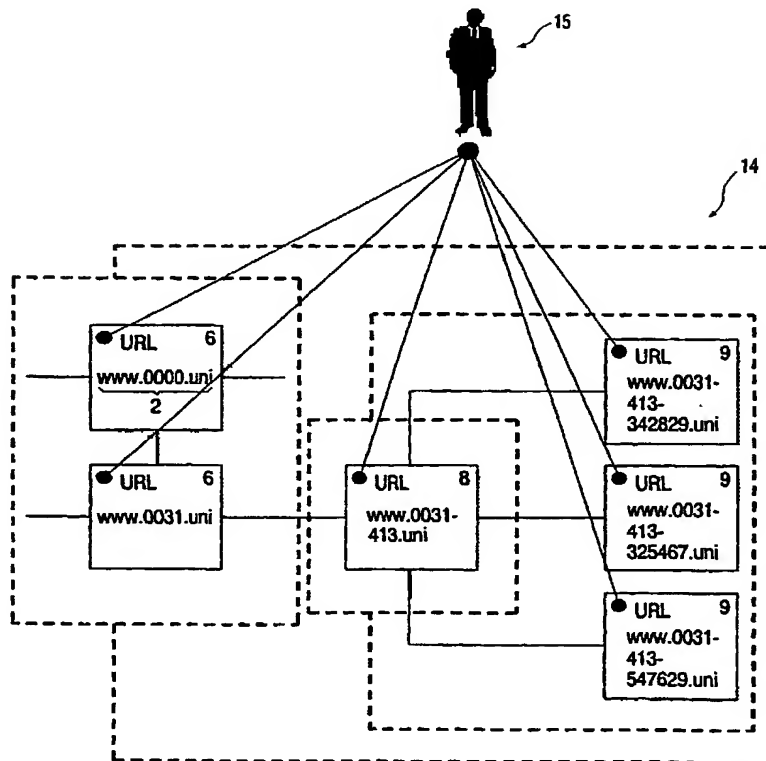
(72) Inventor: **HIJL, Benno, Henricus, Nicolaas [NL/NL];**
Julianastraat 50, NL-5462 HD Veghel (NL).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **METHOD OF IDENTIFYING AND REGISTERING ENTITIES AND AN ASSEMBLY OF HARDWARE AND SOFTWARE FOR APPLYING SUCH A METHOD**



(57) Abstract: The invention relates to a method of identifying and registering entities, in particular for internet applications, comprising the processing steps of: a) defining a URL/domain name system in accordance with a system of identification codes, b) formulating URL/domain name notation rules in accordance with the defined system of identification codes, and c) designating codes and the associated URLs/domain names on the basis of the defined system of identification codes and in accordance with the formulated URL/domain name notation rules. The invention also relates to an assembly of hardware and software for applying this method.



WO 01/08375 A1

1/4

1

2 3 4 5 www.country.reg	www.0031.uni	7 www.0031.com ← 6
www.country-region.reg	www.0031-413.uni	www.0413.nl ← 8
www.country-region-subscriber.reg	www.0031-413-342829.uni	www.0413-342829.nl ← 9

FIG. 1

10

3 4 5 11 www.code.reg /countrynr	www.000.uni /0031	www.000.com/0031
www.code.reg /countrynr/regionnr	www.000.uni /0031/413	www.000.com/0031/0413
www.code.reg /countrynr/regionnr/subscribernr	www.000.uni /0031/413/342829	www.000.com/0031/0413/342829

FIG. 2

12

3 4 5 www.countrynumber.reg	www.123.uni	www.123.net
www.regionnumber.reg	www.123-456.uni	www.123-456.net
www.subscribnumber.reg	www.123-456-123456.uni	www.123-456-123456.net

FIG. 3

13

3 4 5 11 www.code.reg /countrynr	www.000.uni /123	www.000.net/123
www.code.reg /countrynr/regionnr	www.000.uni /123/456	www.000.net/123/456
www.code.reg /countrynr/regionnr/subscribnumber	www.000.uni /123/456/123456	www.000.net/123/456/123456

FIG. 4

2/4

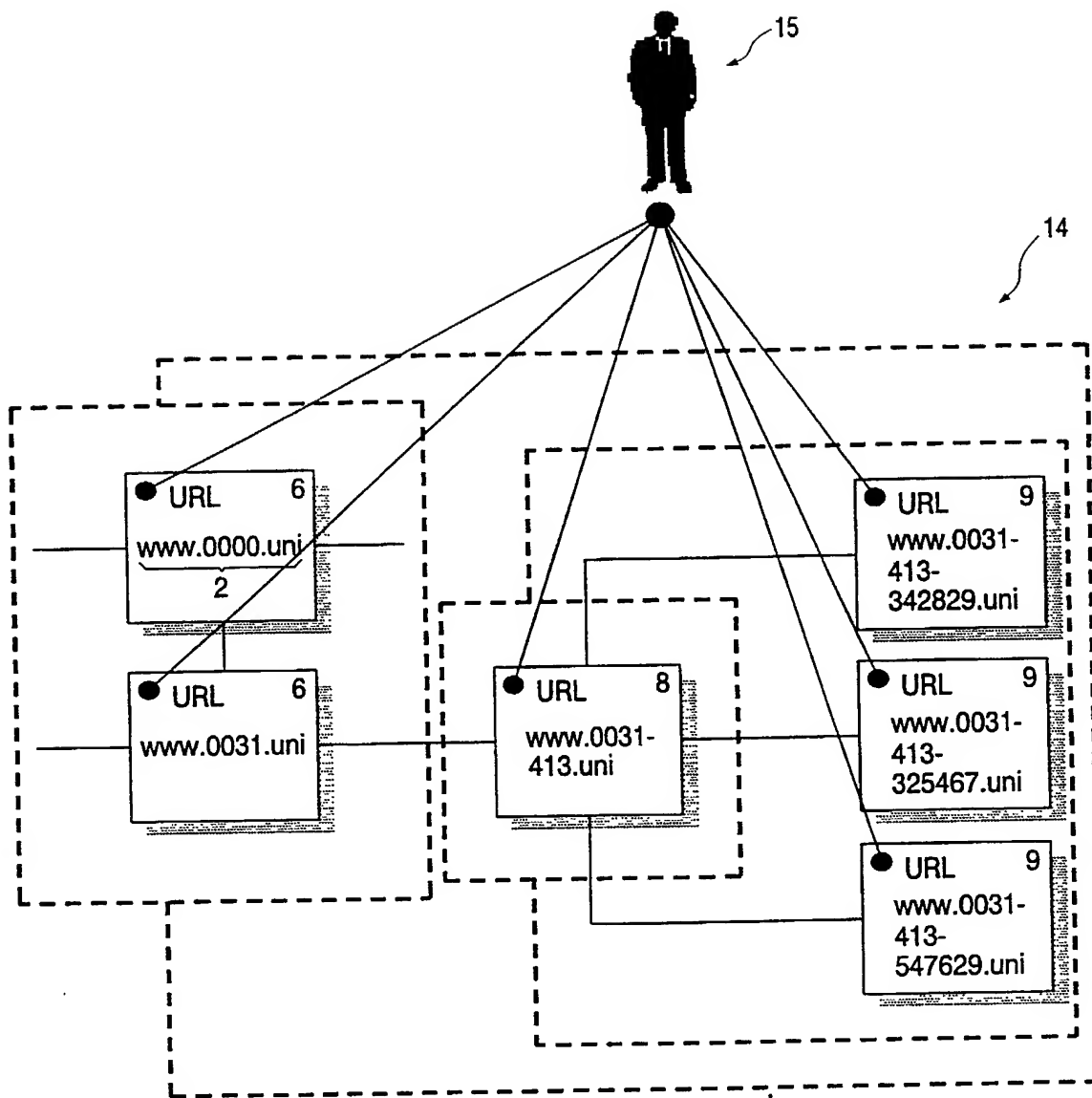
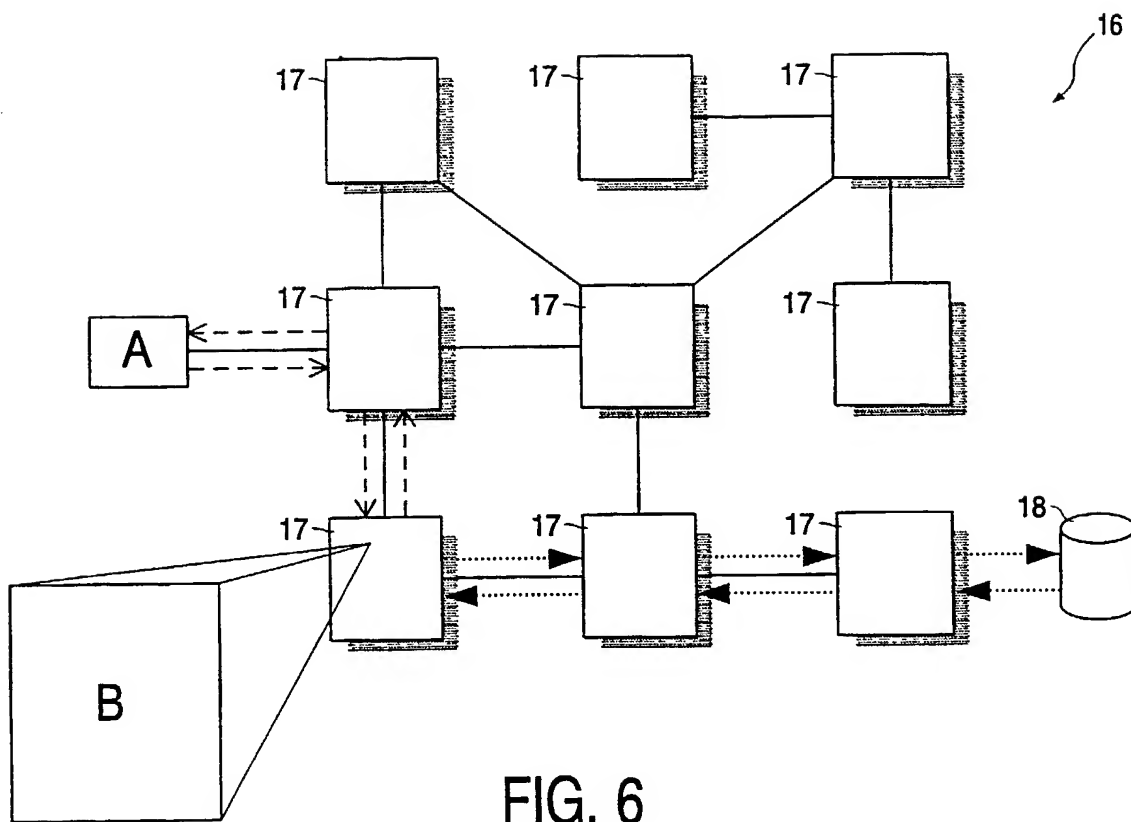


FIG. 5

3/4



4/4

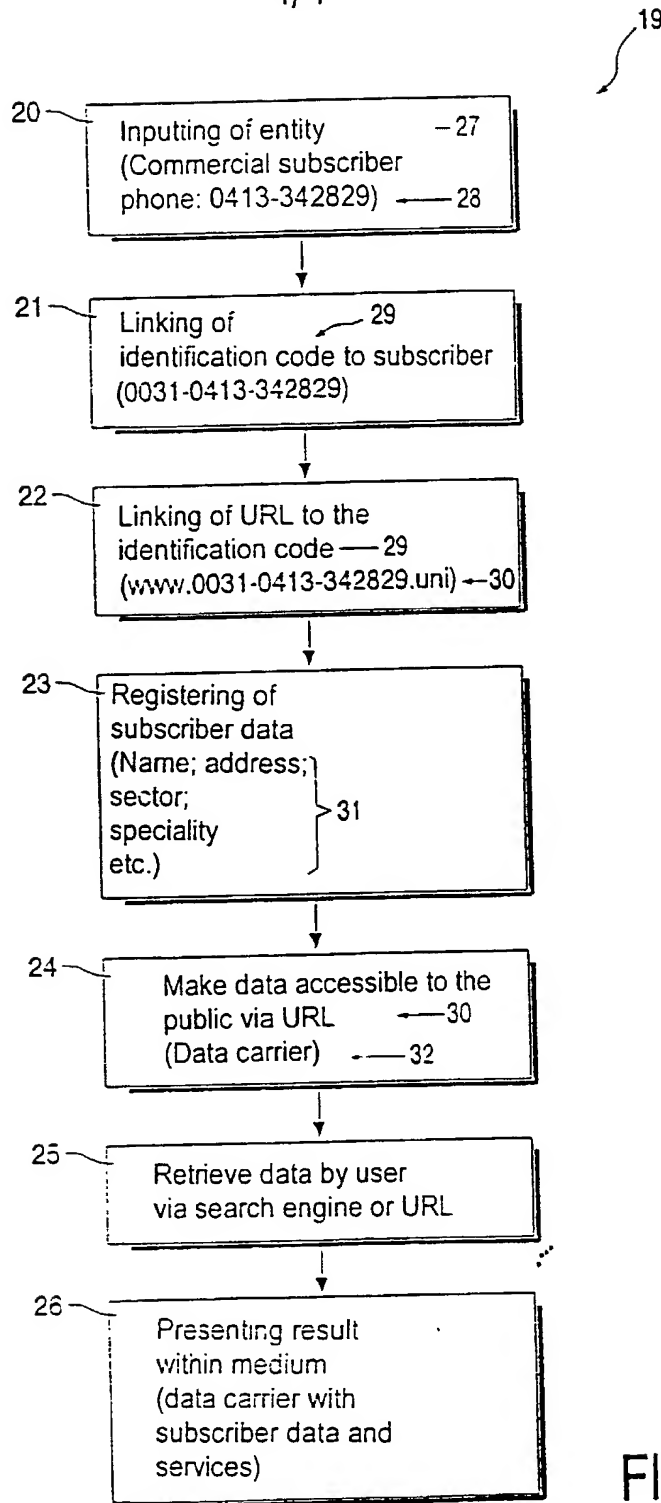


FIG. 7

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION
 (Includes Reference to PCT International Applications)

 ATTORNEY'S DOCKET
 NUMBER

3135-020112

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method of identifying and registering entities and an assembly of hardware and software for applying such a method

the specification of which (check only one item below):

- ☐ is attached hereto
- ☒ was filed as United States application
 Serial No. **10/031,883**
 on **January 25, 2002**
 and was amended
 on **January 25, 2002** (if applicable).
- ☐ was filed as PCT international application Number **PCT/NL00/00539**
 on **28 July 2000**
 and was amended under PCT Article 19
 on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United State code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (of PCT indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
NL	1012721	28 July 1999 (28.07.99)	<input checked="" type="checkbox"/> YES NO
			<input type="checkbox"/> YES NO
			<input type="checkbox"/> YES NO

PTO 1391 (Rev. 10-83)

Page 1 of 2

U.S. DEPT. OF COMMERCE Patent and Trademark Office

(Combined Declaration For Patent Application and Power of Attorney --PTO 1391 [13-11]--page 1 of 2)

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (CONTINUED) (Includes Reference to PCT International Applications)				ATTORNEY DOCKET NUMBER 3135-020112																																											
<p>I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:</p>																																															
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:																																															
U.S. APPLICATIONS			STATUS (Check One)																																												
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED																																											
PCT APPLICATIONS DESIGNATING THE U.S.																																															
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)																																													
<p>POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (<i>List name and registration number</i>)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">William H. Logsdon</td> <td style="width: 10%;">22,132</td> <td style="width: 20%;">Paul M. Reznick</td> <td style="width: 10%;">33,059</td> <td style="width: 20%;">Jesse A. Hirshman</td> <td style="width: 10%;">40,016</td> </tr> <tr> <td>Russell D. Orkin</td> <td>25,363</td> <td>John W. Mellvaine</td> <td>34,219</td> <td>James G. Porcelli</td> <td>33,757</td> </tr> <tr> <td>David C. Hanson</td> <td>23,024</td> <td>Michael I. Shamos</td> <td>30,424</td> <td>Kent E. Baldauf, Jr.</td> <td>36,082</td> </tr> <tr> <td>Frederick B. Ziesenheim</td> <td>19,438</td> <td>Blynn L. Shideler</td> <td>35,034</td> <td>Christian E. Schuster</td> <td>43,908</td> </tr> <tr> <td>Richard L. Byrne</td> <td>28,498</td> <td>Julie W. Meder</td> <td>36,246</td> <td>Deborah M. Altman</td> <td>42,259</td> </tr> <tr> <td>Kent E. Baldauf</td> <td>25,826</td> <td>Lester N. Fortney</td> <td>38,141</td> <td>Thomas Clinton</td> <td>40,561</td> </tr> <tr> <td>Barbara E. Johnson</td> <td>31,198</td> <td>Randall A. Notzen</td> <td>36,882</td> <td>Dean E. Geibel</td> <td>42,570</td> </tr> </table>						William H. Logsdon	22,132	Paul M. Reznick	33,059	Jesse A. Hirshman	40,016	Russell D. Orkin	25,363	John W. Mellvaine	34,219	James G. Porcelli	33,757	David C. Hanson	23,024	Michael I. Shamos	30,424	Kent E. Baldauf, Jr.	36,082	Frederick B. Ziesenheim	19,438	Blynn L. Shideler	35,034	Christian E. Schuster	43,908	Richard L. Byrne	28,498	Julie W. Meder	36,246	Deborah M. Altman	42,259	Kent E. Baldauf	25,826	Lester N. Fortney	38,141	Thomas Clinton	40,561	Barbara E. Johnson	31,198	Randall A. Notzen	36,882	Dean E. Geibel	42,570
William H. Logsdon	22,132	Paul M. Reznick	33,059	Jesse A. Hirshman	40,016																																										
Russell D. Orkin	25,363	John W. Mellvaine	34,219	James G. Porcelli	33,757																																										
David C. Hanson	23,024	Michael I. Shamos	30,424	Kent E. Baldauf, Jr.	36,082																																										
Frederick B. Ziesenheim	19,438	Blynn L. Shideler	35,034	Christian E. Schuster	43,908																																										
Richard L. Byrne	28,498	Julie W. Meder	36,246	Deborah M. Altman	42,259																																										
Kent E. Baldauf	25,826	Lester N. Fortney	38,141	Thomas Clinton	40,561																																										
Barbara E. Johnson	31,198	Randall A. Notzen	36,882	Dean E. Geibel	42,570																																										
Send Correspondence to: <u>John W. Mellvaine, 700 Koppers Building, 436 Seventh Avenue, Pittsburgh PA 15219-1818</u>					Direct Telephone Calls to: (<i>name and telephone number</i>) John W. Mellvaine (412) 471-8815																																										
2	FULL NAME OF INVENTOR	FAMILY NAME	GIVEN NAMES																																												
		<u>HIJL</u>	<u>Benno Henricus Nicolaas</u>																																												
0	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP																																										
		<u>Veghel</u>	<u>The Netherlands NLX</u>		<u>The Netherlands</u>																																										
1	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY																																											
		<u>Julianastraat 50</u>	<u>Veghel</u>	<u>The Netherlands 5462 HD</u>																																											
2	FULL NAME OF INVENTOR	FAMILY NAME	GIVEN NAMES																																												
0	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP																																										
2	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY																																											
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.</p>																																															
Benno Henricus Nicolaas HIJL Date: <u>5-2-2002</u>			Date: _____																																												